

10/553576 PCT\$

**NATIONAL PHASE
UTILITY APPLICATION****Transmittal to the (DO/EO/US)
Under 35 USC 371**

Attorney Docket No.: TOYA114.008APC
 First Named Inventor: Hirai, Mitsuharu
 Int'l Application No.: PCT/JP2004/005496
 Int'l Filing Date: April 16, 2004
 Priority Date Claimed: April 16, 2003 and April 18, 2003
 Title: METHOD OF DETECTING OR QUANTITATIVELY
 DETERMINING MITOCHONDRIAL DNA 3243
 VARIATION, AND KIT THEREFOR
 Express Mail Label No.: EV 718229345 US

Direct all correspondence to Customer No.: 20995Date: October 17, 2005
Page 1 of 2**Mail Stop PCT**

United States Patent and Trademark Office
 P.O. Box 1450
 Alexandria VA 22313-1450

The following enclosures are transmitted herewith to be filed in the patent application of:

Inventors:

1. Mitsuharu Hirai

APPLICATION ELEMENTS:

- (X) This is a FIRST submission of items concerning a filing under 35 U.S.C. § 371.
- (X) This is an Express Request to begin national examination procedures (35 U.S.C. § 371(f)).
- (X) The U.S. has been elected (Article 31).
- (X) A copy of the International Application as filed (35 U.S.C. § 371(c)(2)) has been communicated by the International Bureau. Form PCT/IB/308 enclosed.
- (X) Clean copy of substitute specification with changes is attached here.
- (X) An English translation of the International Application as filed is attached hereto.
- (X) A marked up copy of substitute specification is attached hereto.
- (X) Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. § 371(c)(3)) have not been and will not be made.
- (X) An Oath or Declaration signed by the inventors (35 U.S.C. § 371(c)(4)).

OTHER APPLICATION PARTS:

- (X) Preliminary Amendment in 7 pages.
- (X) Sequence Listing on paper in 5 pages
- (X) Sequence Listing in CRF in duplicate.
- (X) Recordation form cover sheet and Assignment in 3 total pages (cover sheet & assignment).
- (X) Six sheets of drawings.
- (X) Copy of Form PCT/IB/304.
- (X) First page of International application as published.

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Date: October 17, 2005 Page 2 of 2	

(X) International Search Report.

(X) Return prepaid postcard.

FILING FEES:

FEE CALCULATION				
FEE TYPE & DETERMINATION		LARGE FEE	CALCULATION	TOTAL
Basic Filing Fee under 1.492(a)		1631 (\$300)		\$300
Search Fee under 1.492(b) <i>(enter one in TOTAL column)</i>				
(1) USPTO was ISA and claims are novel		1640 (\$0)		\$400
(2) USPTO was the ISA		1641 (\$100)		
(3) Foreign Search Report Enclosed		1642 (\$400)		
(4) No Search Report Enclosed		1632 (\$500)		
Examination Fee under 1.492(c) <i>(enter one in TOTAL column)</i>				
(1) USPTO was IPEA & claims satisfy Art. 33 (1)-(4))		1643 (\$0)		\$200
(2) Non US IPEA / Noncompliant Claims		1633 (\$200)		
Excess Claims	24 - 20 = 4	1615 (\$50)	4 x 50 =	\$200
Excess Ind. Claims	3 - 3 = 0	1614 (\$200)	0 x 200 =	\$0
Assignment		8021 (\$40)	* x 40 =	\$40
			TOTAL FEE DUE	\$1,140

(X) A check in the amount of \$1,140 to cover the Total Fee Due is enclosed.

The Commissioner is hereby authorized to charge any additional fees which may be required, now or in the future, or credit any overpayment to Account No. 11-1410.



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Attorney Docket No. : TOYA114.008APC

Applicant(s) : Hirai, Mitsuharu

For : METHOD OF DETECTING OR QUANTITATIVELY
DETERMINING MITOCHONDRIAL DNA 3243
VARIATION, AND KIT THEREFOR

Attorney : Che Swyden Chereskin, Ph.D.

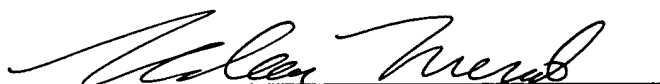
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I hereby certify that the accompanying

Transmittal; Substitute specification in 36 pages; English Translation of the Application;
Marked up copy of application showing changes; Preliminary Amendment in 7 pages;
Declaration and Power of Attorney in 2 pages; Assignment; Recordation Form Cover
Sheet in 3 pages; Paper sequence listing in 5 pages and CRF diskette in duplicate; First
page of International application as published; International Search Report; Copies of
Forms PCT/IB/304 and PCT/IB/308; Six sheets of drawings; Check for Filing Fee;
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